

# George G. Vega Yon

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## Education

**Ph.D. in Biostatistics (concentration in Stat. Comp.)** University of Southern California (2020). Dissertation *"Essays on Bioinformatics and Social Network Analysis: Statistical and Computational Methods for Complex Systems"*

**M.Sc. in Social Sciences (Economics)** California Institute of Technology (2016)

**Master in Economics and Public Policy**, Universidad Adolfo Ibáñez (2011)

**BS. in Social Sciences** and **BS. in Business Administration**, Universidad Adolfo Ibáñez (2010)

## Professional Experience

**University of Southern California, 2015–present** Department of Preventive Medicine *Research Programmer*. As a senior research staff member, my responsibilities include: Provide technical support on statistical computing, e.g., HPC, run training sessions on scientific software development, and writing scientific papers. Since August 2020, I co-instruct the Department's Introduction to Data Science class.

**Chilean Pension Supervisor, August 2011– August 2014** Research Division *Analyst*. Statistical and econometric analysis on the Chilean unemployment insurance, statistical software development, serving as a bridge between the IT and Research divisions.

**Nodos Chile Social Network Analysis Ltda., January 2012–January 2014** *Partner*. Founding partner of one of the first applied SNA Consultancy Entrepreneurship in Chile.

**Universidad Adolfo Ibáñez, January 2011–June 2012**. School of Government *Adjunct Professor*. Taught Introductory courses of Economics, Microeconomics and Statistical computing with Stata.

**Chilean Ministry of Social Planning, March 2011–December 2011**. Social Programs Monitoring *Analyst*. Survey and Analysis of the Government social programs supply and supporting the Monitoring Division with the Open-Data Initiative.

## Software (selected)

- [1] **George G. Vega Yon**. *rgexf: Build, Import and Export GEXF Graph Files* (2020). R package version 0.16.0. URL: <https://CRAN.R-project.org/package=rgexf>. downloads 547K
- [2] **George G. Vega Yon**, Thomas Valente. *netdiffuser: Analysis of Diffusion and Contagion Processes on Networks* (2020). R package version 1.22.0. URL: <https://github.com/USCCANA/netdiffuserR>. downloads 22K

- [3] **George G. Vega Yon**, Kayla de la Haye. *ergmito: Exponential Random Graph Models for Small Networks* (2020). R package version 0.3-0. URL: <https://cran.r-project.org/package=ergmito>. downloads 7793
- [4] **George G. Vega Yon**. *slurmR: A Lightweight Wrapper for 'Slurm'* (2020). R package version 0.4-1. URL: <https://CRAN.R-project.org/package=slurmR>. downloads 6311
- [5] **George G. Vega Yon**. *fmcmc: A friendly MCMC framework* (2020). R package version 0.3-0. URL: <https://CRAN.R-project.org/package=fmcmc>. downloads 9464
- [6] **George G. Vega Yon**. *twitterreport: Out-of-the-box analysis and reporting tools for twitter* (2016). R package version 0.16. URL: <https://doi.org/10.5281/zenodo.44528>.

## Academic Publications (selected)

- [1] **George G. Vega Yon**, Andrew Slaughter, and Kayla de la Haye. "Exponential random graph models for little networks". In: *Social Networks* 64 (2021), pp. 225–238. URL: <https://doi.org/10.1016/j.socnet.2020.07.005>.
- [2] **George G. Vega Yon**, Duncan C. Thomas, John Morrison, et al. "Bayesian parameter estimation for automatic annotation of gene functions using observational data and phylogenetic trees". In: *PLOS Computational Biology* 17.2 (Feb. 2021), pp. 1–35. URL: <https://doi.org/10.1371/journal.pcbi.1007948>.
- [3] **George G. Vega Yon** and Paul Marjoram. "fmcmc: A friendly MCMC framework". In: *Journal of Open Source Software* 4.39 (July 2019), p. 1427. URL: <http://joss.theoj.org/papers/10.21105/joss.01427>.
- [4] **George G. Vega Yon** and Brian Quistorff. "parallel: A command for parallel computing". In: *The Stata Journal: Promoting communications on statistics and Stata* 19.3 (Sept. 2019), pp. 667–684. URL: <http://journals.sagepub.com/doi/10.1177/1536867X19874242>.

## Honors and Professional Achievements

**Technologies** R, C++,  $\text{\LaTeX}$ , SQL, python, XML, regex, Stata, VBA, Gephi, Pajek, Mathematica, git, unix.

**Book reviewer:** "Microeconometrics and Matlab: An Introduction", by Adams, Clarke and Quinn, Oxford University Press, 2015. "Mastering Gephi Network Visualization", by Ken Cherven, Packt Publishing, 2015. "Network Graph Analysis and Visualization with Gephi", by Ken Cherven, Packt Publishing, 2013.

**Awards** Travel Grant, Society of Young Network Scientist, 2019; Fellowship, California Institute of Technology, 2014; Scholarship, Adolfo Ibáñez University, 2006.

**Manuscript reviewer** The Official Journal of The Society for Computational Economics, The R Journal, Social Networks, Journal of Mathematical Sociology, Journal of Open Source Software, SUNBELT Conference (2016), International Conference on Computational Social Science (2019).

**Misc** Founder of the [R Users Group in Chile \(2013\)](#), co-organizer of the [East LA R User Group \(LAERUG\)](#).